

**What is claimed is:**

- 1           1.   An exercise device providing treadmill and  
2 stationary bicycle configurations, comprising:  
3           a running device with a tread belt;  
4           a bicycle device with a pair of pedals; and  
5           a transmission device detachably connecting the  
6           running device and the bicycle device.
- 1           2.   The exercise device as claimed in claim 1,  
2 wherein:  
3           the bicycle device comprises a wheel connected to  
4           the pedals;  
5           the transmission device comprises a supporting  
6           device supporting the bicycle device, the  
7           supporting device alternatively clutched in a  
8           first state and a second state;  
9           the wheel detached from the tread belt when the  
10          supporting device is in the first state; and  
11          the wheel connected to the tread belt when the  
12          supporting device is in the second state.
- 1           3.   The exercise device as claimed in claim 2,  
2 wherein the supporting device comprises a hydraulic  
3 device.
- 1           4.   The exercise device as claimed in claim 1,  
2 wherein the transmission device comprises a clutch and at  
3 least one of a belt pulley module and a gear drive  
4 module.

1           5.    The exercise device as claimed in claim 1,  
2           further comprising a controlling device connected to the  
3           running device and the bicycle device for controlling the  
4           running device and the bicycle device.

1           6.    The exercise device as claimed in claim 5,  
2           wherein the controlling device is further connected to  
3           the transmission device for controlling connection of the  
4           tread belt and the wheel.

1           7.    The exercise device as claimed in claim 5,  
2           wherein the controlling device comprises a control panel  
3           for enabling input of operational settings of the  
4           exercise device.

1           8.    The exercise device as claimed in claim 5,  
2           wherein the running device comprises a motor controlled  
3           by the controlling device.

1           9.    The exercise device as claimed in claim 1,  
2           further comprising a processor performing a program of an  
3           interactive game for the running device and the bicycle  
4           device.

1           10.   The exercise device as claimed in claim 9,  
2           further comprising a controlling device connected to the  
3           processor, the running device and the bicycle device for  
4           controlling the running device and the bicycle device.

1           11.   The exercise device as claimed in claim 10,  
2           wherein the controlling device further connected to the

3 transmission device for controlling connection of the  
4 tread belt and the wheel.

1 12. The exercise device as claimed in claim 10,  
2 wherein the controlling device comprises a control panel  
3 for enabling input of operational settings of the  
4 exercise device.

1 13. The exercise device as claimed in claim 9,  
2 wherein the running device comprises a motor controlled  
3 by the controlling device.

1 14. The exercise device as claimed in claim 9,  
2 wherein the processor further connected to the  
3 transmission device for controlling connection of the  
4 tread belt and the wheel.

1 15. The exercise device as claimed in claim 9,  
2 further comprising a displaying device connected to the  
3 processor for showing the interactive game thereon  
4 according to a plurality of parameters of the program.

1 16. The exercise device as claimed in claim 15,  
2 wherein the displaying device is a two-dimensional  
3 display.

1 17. The exercise device as claimed in claim 16,  
2 wherein the two-dimensional display comprises a  
3 projector, a plasma display, an LCD, a large electronic  
4 display (LED), a computer display, a television display,  
5 or a television wall.

1           18. The exercise device as claimed in claim 15,  
2 wherein the displaying device is a three-dimensional  
3 display.

1           19. The exercise device as claimed in claim 18,  
2 wherein the three-dimensional display comprises a  
3 virtual-reality (VR) displaying system.

1           20. The exercise device as claimed in claim 19,  
2 wherein the VR displaying system comprises a VR helmet, a  
3 VR goggles, a VR projector or a three-dimensional  
4 projector.

1           21. An exercise device providing treadmill and  
2 stationary bicycle configurations, comprising:  
3           a running device with a tread belt;  
4           a bicycle device with a pair of pedals;  
5           a transmission device detachably connecting the  
6           running device and the bicycle device;  
7           a sensing device for detecting exercise information  
8           of the running device and the bicycle device,  
9           and sending a signal related to the exercise  
10          information;  
11          a computer module comprising a program of an  
12          interactive game for the running device and the  
13          bicycle device and a processor performing the  
14          program; and  
15          a displaying device connected to the computer module  
16          for showing the interactive game thereon  
17          according to a plurality of parameters of the  
18          program;

19            wherein the computer module receives the signal  
20            related to the exercise information from the  
21            sensing device to modify the parameters of the  
22            program in response to the exercise  
23            information.

1            22. The exercise device as claimed in claim 21,  
2            further comprising a controlling device connected to the  
3            running device and the bicycle device for controlling the  
4            running device and the bicycle device.

1            23. The exercise device as claimed in claim 22,  
2            wherein the controlling device is further connected to  
3            the transmission device for controlling connection of the  
4            tread belt and the wheel.

1            24. The exercise device as claimed in claim 22,  
2            wherein controlling device comprises a control panel for  
3            enabling input of operational settings of the exercise  
4            device.

1            25. The exercise device as claimed in claim 21,  
2            wherein:

3            the bicycle device comprises a wheel connected to  
4            the pedals;

5            the transmission device comprises a supporting  
6            device supporting the bicycle device, the  
7            supporting device alternatively clutched in a  
8            first state and a second state;

9            the wheel detached from the tread belt when the  
10           supporting device is in the first state; and

11           the wheel connected to the tread belt when the  
12           supporting device is in the second state.

1           26. The exercise device as claimed in claim 25,  
2           wherein the supporting device comprises a spring device  
3           and a hydraulic device.

1           27. The exercise device as claimed in claim 21,  
2           wherein the transmission device comprises a clutch and at  
3           least one of a belt pulley module and a gear drive  
4           module.

1           28. The exercise device as claimed in claim 21,  
2           wherein the running device comprises a motor controlled  
3           by the controlling device.

1           29. The exercise device as claimed in claim 21,  
2           wherein the displaying device is a two-dimensional  
3           display.

1           30. The exercise device as claimed in claim 29,  
2           wherein the two-dimensional display comprises a  
3           projector, a plasma display, an LCD, a large electronic  
4           display (LED), a computer display, a television display,  
5           or a television wall.

1           31. The exercise device as claimed in claim 21,  
2           wherein the displaying device is a three-dimensional  
3           display.

1           32. The exercise device as claimed in claim 31,  
2           wherein the three-dimensional display comprises a  
3           virtual-reality (VR) displaying system.

1           33. The exercise device as claimed in claim 32,  
2           wherein the VR displaying system comprises a VR helmet, a  
3           VR goggles, a VR projector or a three-dimensional  
4           projector.

1           34. An exercise device providing treadmill and  
2           stationary bicycle configurations, comprising:

3           a running device with a tread belt;  
4           a bicycle device with a pair of pedals;  
5           a transmission device detachably connecting the  
6           running device and the bicycle device;  
7           a controlling device comprising a controller  
8           connected to the running device and the bicycle  
9           device for controlling the running device and  
10          the bicycle device, and a control panel for  
11          enabling input of operational settings of the  
12          exercise device to the controller;  
13          a sensing device for detecting exercise information  
14          of the running device and the bicycle device,  
15          and sending a signal related to the exercise  
16          information;  
17          a computer module comprising a program of an  
18          interactive game for the running device and the  
19          bicycle device, and a processor performing the  
20          program; and  
21          a displaying device connected to the computer module  
22          for showing the interactive game thereon  
23          according to a plurality of parameters of the  
24          program;

25            wherein the computer module receives the signal  
26            related to the exercise information from the  
27            sensing device to modify the parameters of the  
28            program in response to the exercise  
29            information.

1            35. The exercise device as claimed in claim 34,  
2            wherein the running device comprises a plurality of  
3            roller shafts for rotatably supporting the tread belt.

1            36. The exercise device as claimed in claim 35,  
2            wherein the running device comprises a motor for driving  
3            the tread belt.

1            37. The exercise device as claimed in claim 34,  
2            wherein:

3            the bicycle device comprises a wheel connected to  
4            the pedals;

5            the transmission device comprises a supporting  
6            device supporting the bicycle device, the  
7            supporting device alternatively clutched in a  
8            first state and a second state;

9            the wheel detached from the tread belt when the  
10           supporting device is in the first state; and

11           the wheel connected to the tread belt when the  
12           supporting device is in the second state.

1            38. The exercise device as claimed in claim 37,  
2            wherein the supporting device comprises a hydraulic  
3            device.



1           39. The exercise device as claimed in claim 34,  
2 wherein the displaying device is a two-dimensional  
3 display.

1           40. The exercise device as claimed in claim 16,  
2 wherein the two-dimensional display comprises a  
3 projector, a plasma display, an LCD, a large electronic  
4 display (LED), a computer display, a television display,  
5 or a television wall.

1           41. The exercise device as claimed in claim 34,  
2 wherein the displaying device is a three-dimensional  
3 display.

1           42. The exercise device as claimed in claim 41,  
2 wherein the three-dimensional display comprises a  
3 virtual-reality (VR) displaying system.

1           43. The exercise device as claimed in claim 42,  
2 wherein the VR displaying system comprises a VR helmet, a  
3 VR goggles, a VR projector or a three-dimensional  
4 projector.

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